



CRANE MAY BE DERATED IN REAR QUADRANTS AS MUCH AS 25%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLE UP.	
TOTAL WEIGHT ON FRONT AXLE	= 18,200 LBS.
TOTAL WEIGHT ON REAR AXLE	= 22,250 LBS.
FRONT AXLE WT. PERCENTAGE	= 45 %
REAR AXLE WT. PERCENTAGE	= 55 %
GROSS VEHICLE WEIGHT	= 40,450 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST., WITH PAYLOAD, LIFT AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 19,890 LBS.
TOTAL WEIGHT ON REAR AXLE	= 34,000 LBS.
TOTAL WEIGHT ON LIFT AXLE	= 9,500 LBS.
FRONT AXLE WT. PERCENTAGE	= 31 %
REAR AXLE WT. PERCENTAGE	= 54 %
LIFT AXLE WT. PERCENTAGE	= 15 %
GROSS VEHICLE WEIGHT	= 63,390 LBS.
PAYLOAD AS SHOWN	= 22,940 LBS.
* WATER LEVEL PAYLOAD	= 19,930 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KENWORTH T880S SFA
WHEELBASE	= 294"
CAB TO AXLE	= 208"
AXLE-TO-FRAME	= 145 3/4"
FRONT AXLE CURB WEIGHT	= 10,000 LBS.
REAR AXLE CURB WEIGHT	= 9,000 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 32.70 in. <sup>3</sup>
MINIMUM RBM/RAIL OF 3,924,000 IN-LBS	

**NOTES:**  
 DOUBLE FRAME CHASSIS REQUIRED.  
 FRAME RAIL MUST MEET THE MINIMUM RBM REQUIRED.  
 FULL LENGTH SUBFRAME REQUIRED:  
 6"x4"x3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 5"x5"x3/8" RECT. TUBING (CROSS MEMBERS)  
 FLATBED WEIGHT IS ESTIMATED.  
 CURB AND LIFT AXLE WEIGHTS WERE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).  
 20,000 LBS. ALLOWED ON FRONT AXLE.  
 34,000 LBS. ALLOWED ON TANDEM.  
 43,500 LBS. ALLOWED ON TRIDEM. (10")  
 63,500 LBS. ALLOWED GROSS WEIGHT.  
 ALLOWABLE LEGAL OVERALL LENGTH IS 40'.

**NOTICE:**  
 THE DRAWING PURPOSE IS TO INTRODUCE A GENERAL CONCEPT OF A PROPOSED IDEA.

**NOTICE:**  
 THIS WEIGHT DISTRIBUTION IS BASED ON ESTIMATED WEIGHTS AND IS ONLY AS ACCURATE AS THOSE ESTIMATES. ACTUAL WEIGHTS MAY CHANGE THE RESULTS OF THIS WEIGHT DISTRIBUTION.

**Hiab**  
 Hiab, Inc.  
 12233 Williams Road  
 Perrysburg, Ohio 43551  
 Tel (419) 482-6000  
 Fax (419) 482-6001

Tolerances - unless otherwise noted.  
 Tolerances are in inches  
 2-PLACE ±.000... .03  
 3-PLACE ±.000... .015  
 ANGULAR ± .....1/16"  
 FRACTIONAL ± .....1/16"  
 Break all sharp corners unless otherwise specified.

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Next Assy.  
 Dwg/Cad file no. 358 / SALES

Drawing Title: **HIAB 358E-5 JIB 100X2 HIPRO**

Project Name: **SALES LAYOUT**

Drawn by: **J W** Date: **5-14-18** Size: **1/16"** Part No.  
 Approval: **J W** Date Approved: **5-14-18** Scale: **unit wt.** Eng. Job no.: